

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the above-referenced application.

Listing of Claims:

Sub C1
1. (Currently amended) A dot display type video display apparatus displaying an image having a first frame frequency at a second frame frequency that is lower than said first frame frequency, said video display apparatus comprising:

a synchronization signal generation circuit for generating a synchronization signal of said second frame frequency;

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a conversion frequency detector for calculating a number of frames making up an unit block at each of said frame frequencies and a number of frames to be thinned based on said first frame frequency and said second frame frequency;

a frame memory for storing a first frame having said first frame frequency;

a difference detector for comparing intensity data of each dot on said video display apparatus of a second frame which is currently input to said video display apparatus with intensity data of each dot of said first frame which is stored in said frame memory and which is immediately before said second frame, and detecting a difference between said two frames;

a difference adder for counting a number of dots for a case in which said difference of said intensity data detected by said difference detector is greater than a prescribed value;

a movement detection/judgment section for distinguishing whether or not a count

value detected by said difference adder is below a prescribed value and outputting a signal indicating that thinning of said second frame is possible, when said count value of said difference adder is below said prescribed value; and

a frame thinning section for thinning said second frame, in a case in which said signal indicating that frame thinning of said second frame is possible is output from said movement detection/judgment section and also a signal indicating said number of frames to be thinned is output from said conversion frequency detector,

wherein said second frame is a selected and determinate frame, and wherein selection of said second frame for thinning by said frame thinning section is based on said signal indicating that thinning of said second frame is possible and said signal indicating said number of frames to be thinned, whereby occurrence of non-continuities in said image when displayed at said second frame frequency is reduced.

2. (Original) A video display apparatus according to claim 1, said frame thinning section further comprising:

a frame thinning means for executing frame thinning of said second frame; and

a frame thinning stopping means for stopping the frame thinning operation of said frame thinning means within a current block including said first frame and said second frame, in a case in which, if, as a result of an execution of frame thinning by said frame thinning means, a total number of thinned frames has reached said number of frames to be thinned which is output from said conversion frequency detector.

3. (Original) A video display apparatus according to claim 1, wherein an area detector for detecting movement of an image within a prescribed area on said video display apparatus is provided, and detection results of said area detector being output to said movement detection/judgment section.

4. (Original) A video display apparatus according to claim 1, wherein said video display apparatus is a plasma display apparatus.

5. (Original) A video display apparatus according to claim 1, wherein said video display apparatus is a liquid-crystal display apparatus.

6. (Currently amended) A dot display type video display apparatus displaying an image having a first frame frequency at a second frame frequency that is lower than said first frame frequency, said video display apparatus comprising:

a synchronization signal generation circuit for generating a synchronization signal of said second frame frequency;

a conversion frequency detector for calculating a number of frames making up an unit block at each of said frame frequencies and a number of frames to be thinned based on said first frame frequency and said second frame frequency;

a frame memory for storing a first frame having said first frame frequency;

a difference detector for comparing intensity data of each dot on said video display apparatus of a second frame which is currently input to said video display apparatus with intensity data of each dot of said first frame which is stored in said frame

memory and which is immediately before said second frame, and detecting a difference between said two frames;

a difference adder for counting a number of dots for a case in which said difference of said intensity data detected by said difference detector is greater than a prescribed value;

a movement detection/judgment section for distinguishing whether or not a count value detected by said difference adder is below a prescribed value and outputting a signal indicating that thinning of said second frame is possible, when said count value of said difference adder is below said prescribed value;

a frame thinning section for thinning said second frame, in a case in which said signal indicating that frame thinning of said second frame is possible is output from said movement detection/judgment section and also a signal indicating said number of frames to be thinned is output from said conversion frequency detector; and

a frame thinning stopping section for stopping the frame thinning operation of said frame thinning section within a current block including said first frame and said second frame, in a case in which, if, as a result of an execution of frame thinning by said frame thinning section, a total number of thinned frames has reached said number of frames to be thinned which is output from said conversion frequency detector,

wherein said second frame is a selected and determinate frame, and wherein selection of said second frame for thinning by said frame thinning section is based on said signal indicating that thinning of said second frame is possible and said signal indicating said number of frames to be thinned, whereby occurrence of non-continuities in said image when displayed at said second frame frequency is reduced.

7. (Currently amended) A plasma display apparatus displaying an image having a first frame frequency at a second frame frequency that is lower than said first frame frequency, said video display apparatus comprising:

a synchronization signal generation circuit for generating a synchronization signal of said second frame frequency;

a conversion frequency detector for calculating a number of frames making up an unit block at each of said frame frequencies and a number of frames to be thinned based on said first frame frequency and said second frame frequency;

a frame memory for storing a first frame having said first frame frequency;

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a difference detector for comparing intensity data of each dot on said video display apparatus of a second frame which is currently input to said video display apparatus with intensity data of each dot of said first frame which is stored in said frame memory and which is immediately before said second frame, and detecting a difference between said two frames;

a difference adder for counting a number of dots for a case in which said difference of said intensity data detected by said difference detector is greater than a prescribed value;

a movement detection/judgment section for distinguishing whether or not a count value detected by said difference adder is below a prescribed value and outputting a signal indicating that thinning of said second frame is possible, when said count value of said difference adder is below said prescribed value;

a frame thinning section for thinning said second frame, in a case in which said

signal indicating that frame thinning of said second frame is possible is output from said movement detection/judgment section and also a signal indicating said number of frames to be thinned is output from said conversion frequency detector; and

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a frame thinning stopping section for stopping the frame thinning operation of said frame thinning section within a current block including said first frame and said second frame, in a case in which, if, as a result of an execution of frame thinning by said frame thinning section, a total number of thinned frames has reached said number of frames to be thinned which is output from said conversion frequency detector,

wherein said frame thinning of said second frame is performed irrespective of a positional order of said second frame in said unit block.

8. (Currently amended) A display method for a dot display type video display apparatus

displaying an image having a first frame frequency at a second frame frequency that is lower than said first frame frequency, said video display apparatus comprising:

a synchronization signal generation circuit for generating a synchronization signal of said second frame frequency;

a conversion frequency detector for calculating a number of frames making up an unit block at each of said frame frequencies and a number of frames to be thinned based on said first frame frequency and said second frame frequency;

a frame memory for storing a first frame having said first frame frequency;

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a difference detector for comparing intensity data of each dot on said video display apparatus of a second frame which is currently input to said video display apparatus with intensity data of each dot of said first frame which is stored in said frame memory and which is immediately before said second frame, and detecting a difference between said two frames;

a difference adder for counting a number of dots for a case in which said difference of said intensity data detected by said difference detector is greater than a prescribed value;

a movement detection/judgment section for distinguishing whether or not a count value detected by said difference adder is below a prescribed value and outputting a signal indicating that thinning of said second frame is possible, when said count value of said difference adder is below said prescribed value; and

a frame thinning section for thinning said second frame, in a case in which said signal indicating that frame thinning of said second frame is possible is output from said

movement detection/judgment section and also a signal indicating said number of frames to be thinned is output from said conversion frequency detector,

said method comprising the steps of:

comparing said intensity data of said first frame with that of said second frame;

thinning said second frame when said intensity data of said two frames are the same;

stopping said frame thinning operation within a current block including said first frame and said second frame, in a case in which, as a result of an execution of frame thinning, a total number of thinned frames has reached said number of frames to be thinned, which is output from said conversion frequency detector,

wherein said second frame is a selected and determinate frame, and wherein selection of said second frame for thinning by said frame thinning section is based on said signal indicating that thinning of said second frame is possible and said signal indicating said number of frames to be thinned, whereby occurrence of non-continuities in said image when displayed at said second frame frequency is reduced.